

# FILE NOTATIONS

Entered in N I D File \_\_\_\_\_  
 Entered On S R Sheet \_\_\_\_\_  
 Location Map Pinned \_\_\_\_\_  
 Card Indexed \_\_\_\_\_  
 I W R for State or Fee Land \_\_\_\_\_

Checked by Chief \_\_\_\_\_  
 Copy N I D to Field Office \_\_\_\_\_  
 Approval Letter \_\_\_\_\_  
 Disapproval Letter \_\_\_\_\_

## COMPLETION DATA:

Date Well Completed May, 1977  
 OW \_\_\_\_\_ WW \_\_\_\_\_ TA \_\_\_\_\_  
 GW \_\_\_\_\_ OS \_\_\_\_\_ PA ☒

Location Inspected \_\_\_\_\_  
 Bond released \_\_\_\_\_  
 State of Fee Land \_\_\_\_\_

## LOGS FILED

Driller's Log ☒ \_\_\_\_\_

Electric Logs (No. ) \_\_\_\_\_

E \_\_\_\_\_ I \_\_\_\_\_ E-I \_\_\_\_\_ GR \_\_\_\_\_ GR-N \_\_\_\_\_ Micro \_\_\_\_\_

Lat \_\_\_\_\_ Mi-L \_\_\_\_\_ Sonic \_\_\_\_\_ Others \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐OTHER ☐SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Houston Oil and Minerals Corporation

## 3. ADDRESS OF OPERATOR

1700 Broadway - Suite 504, Denver, Colorado 80290

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

748' FNL and 664' FWL of Section 9, T38S, R3E

At proposed prod. zone

Same

Nw 1/4 Nw 1/4

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

24.1 miles south of Escalante, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drilg. unit line, if any)

572

664

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

N/A

## 16. NO. OF ACRES IN LEASE

160

## 19. PROPOSED DEPTH

8500'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6727 (Ungraded Ground Elevation)

## 22. APPROX. DATE WORK WILL START\*

October, 1976

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48.0	300'	300 SX
15"	9-5/8"	36.0	2500'	250 SX
8-3/4"	5-1/2"	17.0	8500'	500 SX

Set 13-3/8" conductor casing, circulate cement to surface, install BOP's. Drill to 2500' with native mud and set 9-5/8" surface casing with 1-1/4" parasite string; nipple up with 10" Series 1500 double hydraulic ram type BOP and rotating head, with necessary choke manifold. Pressure test to 3000 psi. No high pressures are anticipated, however, the minimum safety requirements for the state of Utah and USGS will be followed.

Drill to approximately 8500' using air as far as possible, then mud up with a low solids, non-dispersed system, utilizing the parasite string (to lighten hydrostatic column and prevent lost circulation). Mud logging and sample analysis will be utilized from surface to TD, with cores and DST's taken where necessary to properly evaluate any potentially productive zones (see attachment for estimated formation tops).

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Ronald D. Scott

TITLE

Drilling Engineer

DATE

October 4, 1976

(This space for Federal or State office use)

PERMIT NO.

13-025-30014

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

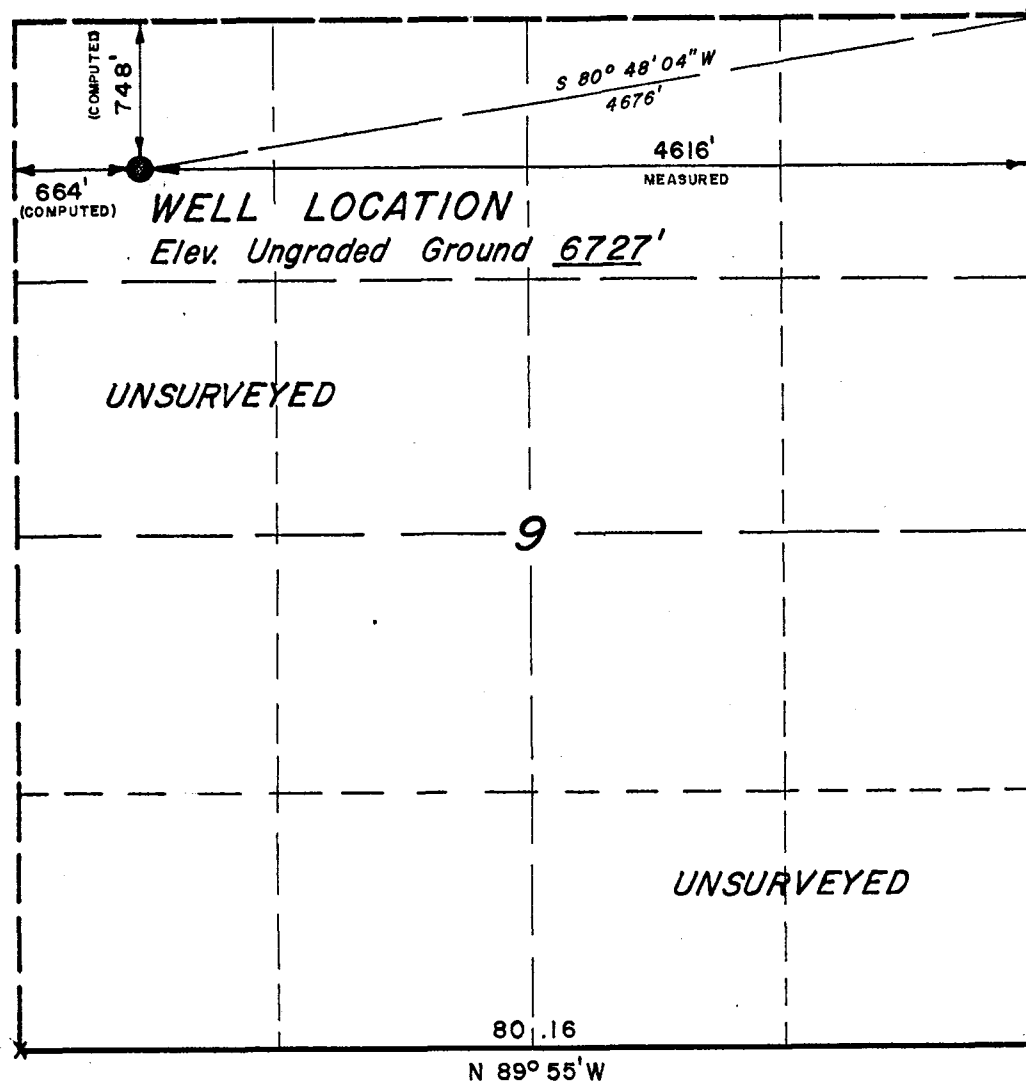
Approx 1350' from Sun Oil Co. Hole

*T38S, R3E, SLB. & M.*

PROJECT

HOUSTON OIL & MINERAL CORPORATION

Well location, located as shown in the NW1/4  
NW1/4 Section 9, T38S, R3E, SLB. & M.  
Kane County, Utah



X = Section corners located.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

*Helena J. Marshall*

REGISTERED LAND SURVEYOR  
REGISTRATION NO 2454  
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING  
P. O. BOX Q - 110 EAST - FIRST SOUTH  
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 10/4/76
PARTY D. ALRED R BROADWAY D. GARDNER	REFERENCES .GLO PLAT
WEATHER HOT	FILE HOUSTON OIL & MIN CORP.

## DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City, Utah  
SERIAL NO.: U-18958

and hereby designates

NAME: Houston Oil & Minerals Corporation  
ADDRESS: Suite 504, 1700 Broadway, Denver, Colorado 80201

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

*W/2*  
W/2 NW/4 Section 9 of T-38-S, R-3-E, Kane County, Utah  
*of*

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

GENERAL AMERICAN OIL COMPANY OF TEXAS

By *Jack L. Woods*  
(Signature of lessee)  
Jack L. Woods, Senior Vice President  
Meadows Building  
Dallas, Texas 75206  
(Address)

October 1, 1976  
(Date)

ESTIMATED FORMATION TOPS

RELISHEN PROSPECT

HOUSTON OIL & MINERALS - FEDERAL 11-9

Kane County, Utah

KB Estimated 6,715'

Cretaceous

Wahweap	Spud
Tropic Sh	1,450'
Dakota	1,975'

Jurassic

Winsor	2,050'
Entrada	3,225'
Carmel	3,750'
Navajo	3,850'

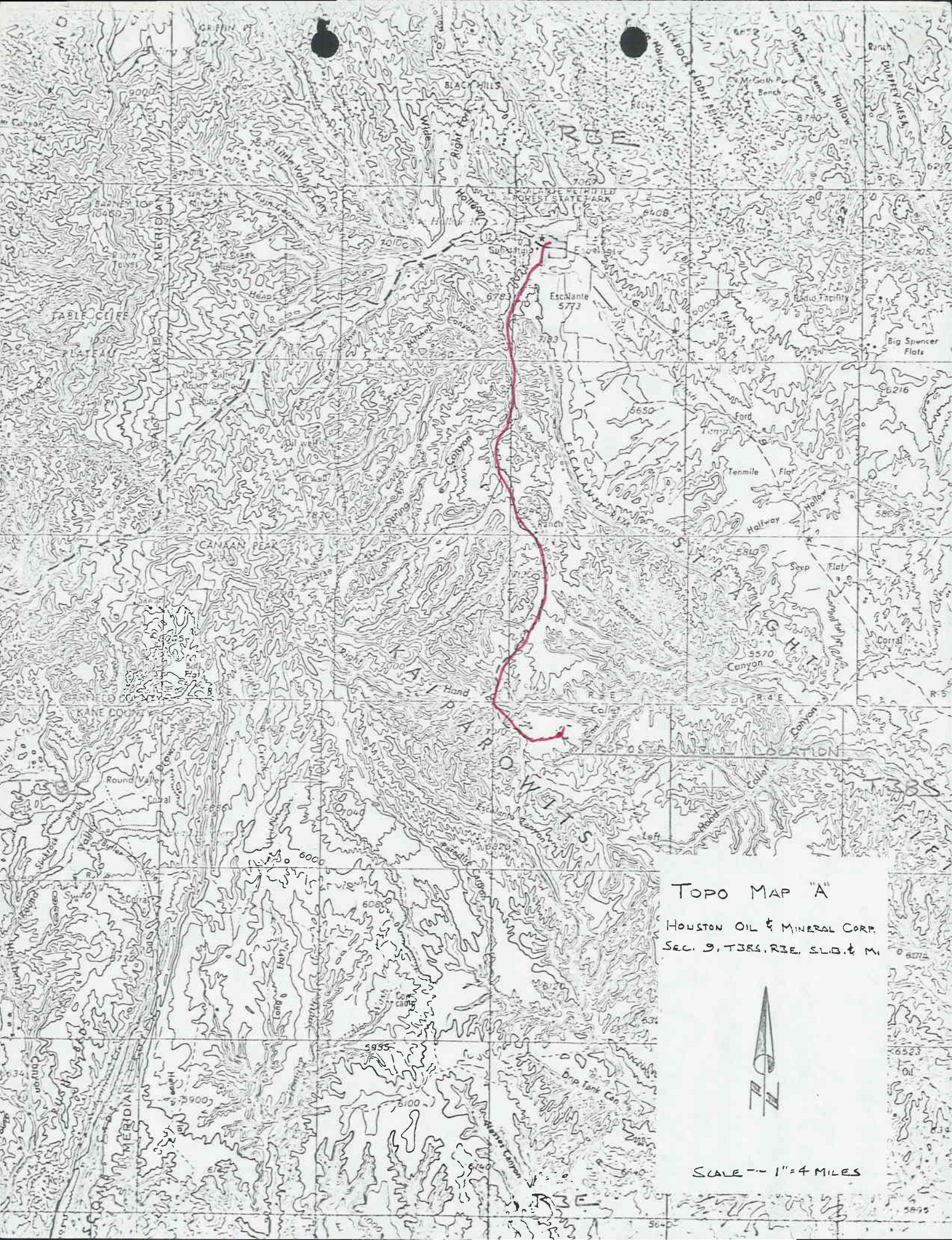
Triassic

Kayenta	5,200'
Wingate	5,475'
Chinle	5,750'
Shinarump	6,350'
Moenkopi	6,450'
Timpoweap	7,050'

Permian

Kaibab	7,125'
White Rim	7,250'
Toroweap	7,350'
Organ Rock	7,700'
Cedar Mesa	8,025'
TD	8,200'





TOPO MAP "A"

HOUSTON OIL & MINERAL CORP.  
SEC. 9, T38S, R3E, S10E & M.



SCALE -- 1" = 4 MILES



HOUSTON OIL & MINERALS CORPORATION

12 Point Surface Use Plan

for

Well Location

located in

Section 9, T38S, R3E, SLB & M

Kane County, Utah

# 1. EXISTING ROADS

See attached Topographic Map "A" to reach Houston Oil and Minerals Corp. well location in Section 9, T38S, R3E, S.L.B. & M. The existing .4 miles of unimproved dirt road shall be improved by grading from the Sun Oil Well 1/2 miles southwest of the proposed well location to the exit onto the proposed access road.

# 2. PLANNED ACCESS ROAD

See Topographic Map "B". The proposed access road will be an 18' wide crown surface road (9' on either side of the centerline) with drain ditches where needed to handle drainage. Maximum grade on the proposed access road is approximately 3%. The access road is to be constructed of native borrow accumulated during construction. The proposed access road will leave the location site on the west side and proceed west approximately 0.1 miles to the existing unimproved dirt road. Ground traversed by the access road is generally flat and is vegetated with re-seeded crested wheat grass.

# 3. LOCATION OF EXISTING WELLS

Existing wells within a one mile radius of the proposed well location site are shown on the attached Topographic Map "B". (See location plat for placement of Houston Oil and Minerals Corp. well location within the section).

# 4. LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES, AND PRODUCTION GATHERING AND SERVICE LINES

All production facilities are to be contained within the proposed location site. There are no gathering, injection or disposal pipe lines within a one mile radius. In the event production is established, the well shall be capped and retained for further use when additional wells in the area are established.

# 5. LOCATION AND TYPE OF WATER SUPPLY

Water used to drill this well is to be hauled from Camp Spring located in the SW 1/4 SW 1/4 Sec. 36, T37S, R2E, S.L.B. & M. approximately 2.7 miles to the northwest of the location site.

# 6. SOURCE OF CONSTRUCTION MATERIALS

All construction materials for this location site and access road shall be borrow materials accumulated during construction of the location site and access road. No additional road gravels or pit lining material from other sources are anticipated at this time.

# 7. METHODS FOR HANDLING WASTE DISPOSAL

All garbage and trash that can be burned shall be burned. All unburnable garbage and trash accumulated during the development of this well shall be contained in the trash pit shown on the attached location layout sheet. When drilling activities have been completed, the rig moved off the location and production facilities set up, all garbage and trash on the location site shall be cleaned up and covered with a minimum 4' of cover. All production waste such as cuttings, salts, chemicals, overflows of condensate, water, and drilling



fluids shall be contained in the south cell of the reserve pit and on completion of drilling activities buried with a minimum four feet of cover. A portable chemical toilet shall be provided for human waste. (See end paragraph in Item No. 10).

#### 8. ANCILLARY FACILITIES

There will be no ancillary facilities.

#### 9. WELL SITE LAYOUT

See attached location layout plat. B.L.M. District Manager shall be notified before any construction begins on the proposed location site. When drilling activities commence, all work shall proceed in a neat and orderly sequence.

#### 10. PLANS FOR RESTORATION OF SURFACE

As there is some topsoil in the area, all topsoil will be stripped and stockpiled prior to drilling activities (see Item No. 9). When all production activities have been completed, the location site and access road will be reshaped to the original contour and the topsoil spread over the disturbed area. Any drainages re-routed during the construction and production activities shall be restored to their original line of flow. All additional wastes being accumulated during production activities and contained in the reserve pit and trash pit shall be buried with a minimum four feet of cover. The location site and access road shall be reseeded with a seed mixture as recommended by the B.L.M. District Manager when the moisture content of soil is adequate for germination. Restoration activities shall begin within 90 days after completion of the well. Once completion activities have begun, they shall be completed within 30 days. The lessee further covenants and agrees that all of said clean-up and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned Items No. 7 and No. 10.

#### 11. OTHER INFORMATION

Topography of the general area consists of generally deep canyons and high ridges trending northwest and southeast with rock out croppings, and ledges occurring along the steeper ridge. Level areas occur only at the higher elevations and drainage bottoms throughout the area. Drainages in the area are intermittent in nature running occasionally in the spring-time and draining easterly into the semi-annually flowing Twenty Mile Wash. Soils of this semi-arid area are poorly graded gravels. The marginal topsoil throughout the area supports the juniper and pinion forest. The open flats are vegetated with sagebrush and grasses (vegetation of the area consists of approximately 70% juniper and pinion forest, 20% sagebrush and grasses and 10% bare earth). The ground in the area is also leased for grazing. Wildlife is sparse; predominantly deer, coyotes, rabbits, and a variety of small ground squirrels and mice. Birds in the area are hawks, finches, ground sparrows, magpies, and jays. The well is located approximately in the center of the plateau between Long Canyon and Right Hand Collect Canyon. The immediate area surrounding the location site has been chained and is vegetated with crested wheat grass. The ground slopes through the location site on approximately a 3% grade and is vegetated with crested wheat grass. There are no occupied dwellings, or other facilities including archeological, historical, or cultural sites within any reasonable close proximity of the proposed location site. (See attached Topographic Map "B").

12. LESSES'S or OPERATOR'S REPRESENTATIVE

Ron Scott  
1700 Broadway, Suite #504  
Denver, Colorado 80203

Bus. Phone (303)-861-7942

CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Houston Oil and Minerals Corp. and its contractors and sub-contractors in conformity with this plan and terms and conditions with this plan and the terms and conditions under which it is approved.

10/4/76  
Date

Ron Scott  
Ron Scott

Title Drilling Engineer

DIVISION OF OIL, GAS, AND MINING

\*FILE NOTATIONS

*Conf. Serial*

Date: Oct. 13, 1976  
Operator: Houston O. & Minerals  
Well No: Federal 11-9  
Location: Sec. 9 T. 38S R. 3E County: Kane

File Prepared



Entered on N.I.D.



Card Indexed



Completion Sheet



Checked By:

Administrative Assistant:

*[Signature]*

Remarks:

Petroleum Engineer/Mined Land Coordinator:

*[Signature]*

Remarks:

Director:

*[Signature]*

Remarks:

*Hold until 48 hrs before Spud date. Then release only OP. name & location other info. to be held Confidential*

Include Within Approval Letter:

Bond Required

☐

Survey Plat Required

☐

Order No.

☐

Blowout Prevention Equipment

☐

Rule C-3(c) Topographical exception/company owns or controls acreage within a 660' radius of proposed site

☐

O.K. Rule C-3

☒

O.K. In \_\_\_\_\_ Unit

☐

Other:

☐

Letter Written

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <del>U-19237-A</del> U-18958
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Houston Oil and Minerals Corporation		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR 1700 Broadway - Suite 504, Denver, Colorado 80290		8. FARM OR LEASE NAME Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 748' FNL and 664' FWL of Section 9, T38S, R3E At proposed prod. zone Same NW NW Sec. 9		9. WELL NO. 11-9
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 24.1 miles south of Escalante, Utah		10. FIELD AND POOL, OR WILDCAT Wildcat
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 664'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 9, T38S, R3E
16. NO. OF ACRES IN LEASE 160		12. COUNTY OR PARISH Kane
17. NO. OF ACRES ASSIGNED TO THIS WELL 160		13. STATE Utah
18. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N/A		20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6727 (Ungraded Ground Elevation)		22. APPROX. DATE WORK WILL START* October, 1976

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48.0	300'	300 sx
15"	9-5/8"	36.0	2500'	250 sx
8-3/4"	5-1/2"	17.0	8500'	500 sx

Set 13-3/8" conductor casing, circulate cement to surface, install BOP's. Drill to 2500' with native mud and set 9-5/8" surface casing with 1-1/4" parasite string; nipple up with 10" Series 1500 double hydraulic ram type BOP and rotating head, with necessary choke manifold. Pressure test to 3000 psi. No high pressures are anticipated, however, the minimum safety requirements for the state of Utah and USGS will be followed.

Drill to approximately 8500' using air as far as possible, then mud up with a low solids, non-dispersed system, utilizing the parasite string (to lighten hydrostatic column and prevent lost circulation). Mud logging and sample analysis will be utilized from surface to TD, with cores and DST's taken where necessary to properly evaluate any potentially productive zones (see attachment for estimated formation tops).

Dur of Ops 45 days

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout prevention program, if any.

SIGNED Ronald D. Scott TITLE Drilling Engineer DATE October 4, 1976  
(This space for Federal or State office use)



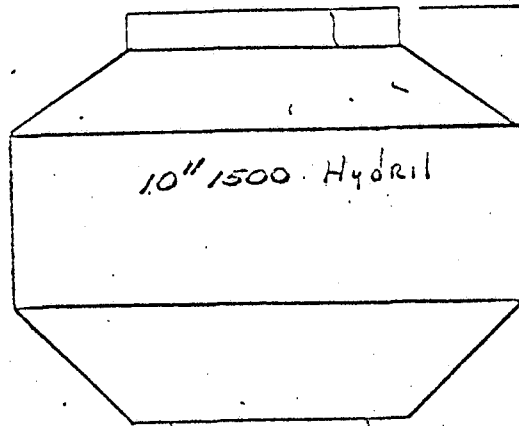
PERMIT NO. \_\_\_\_\_ APPROVAL DATE OCT 15 1976  
(Orig. Sgd.) E. W. Guynn TITLE DISTRICT ENGINEER DATE OCT 21 1976  
APPROVED BY \_\_\_\_\_ CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

APPROVAL NOTICE - UTAH STATE O-G-M

Seven Point Plan for  
Houston Oil and Minerals Federal 11-9  
Kane County, Utah

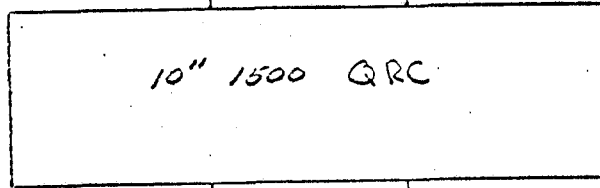
1. Surface casing: 300', 13-3/8", 48.0#, H-40, ST & C (new).
2. Size and series of casinghead, flanges, and spools: 13-3/8" X 9-5/8" (Series 1500-5000 psi) casinghead; 9-5/8" X 5-1/2" casinghead spool (Series 1500-5000 psi); 5-1/2" X 2-7/8" tubinghead (Series 1500-5000 psi). All flanges and spools will be Series 1500, 5000 psi W.P., 10,000 psi test.
3. Intermediate casing: 2500', 9-5/8", 36.0#, K-55, LT & C (new).
4. Blowout prevention: Hydril (bag) and two ram type - 10" Shaeffer 1500 series. Blind and pipe rams for each size of casing and drill pipe will be provided. Proper fill, kill and choke manifolding will be utilized.
5. Auxiliary equipment to be used will be as follows:
  - a. kelly cocks
  - b. floats at the bit
  - c. mud monitoring system
  - d. a full opening - quick close drill pipe valve, to be located on the derrick floor at all times.
6. The anticipated bottom hole pressure at total depth, or maximum expected pressure is 3000 psi (subnormal pressures).
7. The drilling fluid to be utilized for the surface pipe will be a native gel mud. An attempt will be made to air drill the hole from the base of the 9-5/8" casing (2500') to TD; however, in the event "mudding up" is necessary, a low-solids, non-dispersed system will be utilized in conjunction with the parasite string (1-1/4" tubing run in tandem with the 9-5/8" casing).





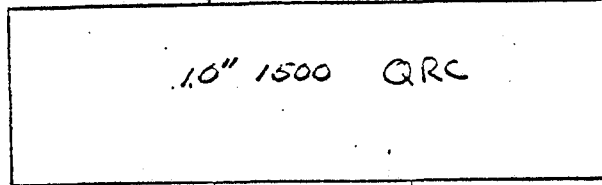
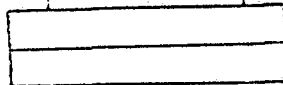
10" 1500 Hydriil

17.50"



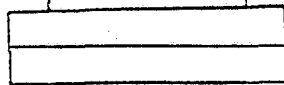
10" 1500 QRC

36"



10" 1500 QRC

36"



KILL



CHOKER

24"

11.96'

Rig Mat

Rig Mat

10" 5000 Stack

10" 5000 Stack

LOFFLAND BROTHERS CO.  
TULSA, OKLAHOMA

BY RON

DATE 5/20/76

NO. R. 184

#276

Houston Oil & Min Co.  
Well No. #11-9  
Sec. 9, T38S, R3E  
SEB M Kane County  
Utah - U-1937-A  
Houston - R. Scott  
BLM - H. Gates  
Dirr Coit - E. Boyd  
USGS - B. Fiant

<input checked="" type="checkbox"/> O	ENHANCES
<input type="checkbox"/>	NO IMPACT
<input type="checkbox"/> /	MINOR IMPACT
<input type="checkbox"/> X	MAJOR IMPACT

ATTACHMENT 2-A		Construction		Pollution		Drilling Production		Transport Operations		Accidents		Others									
HOUSTON Oil & Min Co. Well No. #11-9 SEC. 9, T38S, R3E SBLM KANE County, UTAH - U-19237-A HOUSTON - R. SCOTT BLM - H. GATES Dir. Co. - E. BOYD USGS - B. FIANT		Roads, bridges, airports	Transmission lines, pipelines	Dams & impoundments	Others (pump stations, compressor stations, etc.)	Burning, noise, junk disposal	Liquid effluent discharge	Subsurface disposal	Others (toxic gases, noxious gas, etc.)	Well drilling	Fluid removal (Prod. wells, facilities)	Secondary Recovery	Noise or obstruction of scenic views	Mineral processing (ext. facilities)	Others	Trucks	Pipelines	Others	Spills and leaks	Operational failure	
<input checked="" type="checkbox"/>	ENHANCES																				
<input type="checkbox"/>	NO IMPACT																				
<input checked="" type="checkbox"/>	MINOR IMPACT																				
<input checked="" type="checkbox"/>	MAJOR IMPACT																				
Land Use	Forestry	✓																			
	Grazing	✓		✓		✓			✓							✓			✓		
	Wilderness	✓																			
	Agriculture	✓																			
	Residential-Commercial	✓																			
	Mineral Extraction	✓																			
	Recreation	✓	○																		
	Scenic Views	✓				✓					✓							✓			
	Parks, Reserves, Monuments	✓																			
	Historical Sites	✓	NO EVIDENCE																		
Unique Physical Features	✓																				
Flora & Fauna	Birds	✓				✓			✓							✓			✓		
	Land Animals	✓				✓			✓							✓			✓		
	Fish	✓																			
	Endangered Species	✓	NONE KNOWN																		
	Trees, Grass, Etc.	✓		✓		✓												✓			
Phy. Charact.	Surface Water	✓																			
	Underground Water	✓																			
	Air Quality	✓							✓							✓					
	Erosion	✓				✓													✓		
	Other	✓																			
Effect On Local Economy																					
		✓	○						○							○					
Safety & Health									✓												
Others		OR 19- FILE CC - BLM - CEDAR CITY REG MGR - DENVER UTAH STATE O-G-M ✓																			

Lease

U-18958

Well No. & Location

11-9 SEC 9, T38S, R3E,

SLB & M Kane County, Utah

ENVIRONMENTAL IMPACT ANALYSIS - ATTACHMENT 2-B

1. Proposed Action

Houston Oil & Minerals Corp

PROPOSES TO DRILL AN OIL AND

GAS TEST WELL WITH ROTARY TOOLS TO ABOUT 8500 FT. TD. 2) TO CONSTRUCT A

DRILL PAD 165 FT. X 265 FT. AND A RESERVE PIT 100 FT. X 100 FT.

3) TO CONSTRUCT 18 FT. X 0.1 MILES ACCESS ROAD AND UPGRADE 20 FT.

X .4 MILES ACCESS ROAD FROM AN EXISTING AND IMPROVED ROAD.

2. Location and Natural Setting (existing environmental situation)

The proposed well site is approx 16 miles south of Escalante, Utah

Topography of the area is generally deep canyons, high ridges with numerous rock outcroppings along the top of the ridges.

The area near the well site has been chained (trees up rooted) to provide additional forage for livestock & wildlife.

The site is in a relatively flat area with a slight slope to the east.

Vegetation consists of sage brush and grasses.

The surface is public domain & is leased for livestock grazing during summer months.

Grazing is considered good.

Wildlife found in the area are mule deer, coyotes, bob cats, rabbits, small rodents & birds.

There was no evidence of any historical or archeological sites near the area to be disturbed.

No drainages will be disturbed while constructing access road or well location.

For additional information see section 11 of the multi-point surface use plan.

3. Effects on Environment by Proposed Action (potential impact)

- 1) EXHAUST EMISSIONS FROM THE DRILLING RIG POWER UNITS AND SUPPORT TRAFFIC ENGINES WOULD ADD MINOR POLLUTION TO THE ATMOSPHERE IN THE LOCAL VICINITY.
- 2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.
- 3) MINOR VISUAL IMPACTS FOR A SHORT TERM DUE TO OPERATIONAL EQUIPMENT AND SURFACE DISTURBANCE.
- 4) TEMPORARY DISTURBANCE OF WILDLIFE AND LIVESTOCK.
- 5) MINOR DISTRACTION FROM AESTHETICS FOR SHORT TERM.

6)

4. Alternatives to the Proposed Action

1) NOT APPROVING THE PROPOSED PERMIT -- THE OIL AND GAS LEASE GRANTS THE LESSEE EXCLUSIVE RIGHT TO DRILL FOR, MINE, EXTRACT, REMOVE AND DISPOSE OF ALL OIL AND GAS DEPOSITS.

2) DENY THE PROPOSED PERMIT AND SUGGEST AN ALTERNATE LOCATION TO MINIMIZE ENVIRONMENTAL IMPACTS.

3) NO NEAR-BY LOCATIONS COULD BE FOUND THAT WOULD JUSTIFY MOVING THE PROPOSED WELL SITE.

5. Adverse Environmental Effects Which Cannot Be Avoided

- 1) MINOR AIR POLLUTION DUE TO EXHAUST EMISSIONS FROM RIG ENGINES AND SUPPORT TRAFFIC ENGINES.
- 2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.
- 3) MINOR AND TEMPORARY DISTURBANCE OF WILDLIFE.
- 4) TEMPORARY DISTURBANCE OF LIVESTOCK.
- 5) MINOR AND SHORT-TERM VISUAL IMPACTS.
- 6)

6. Determination

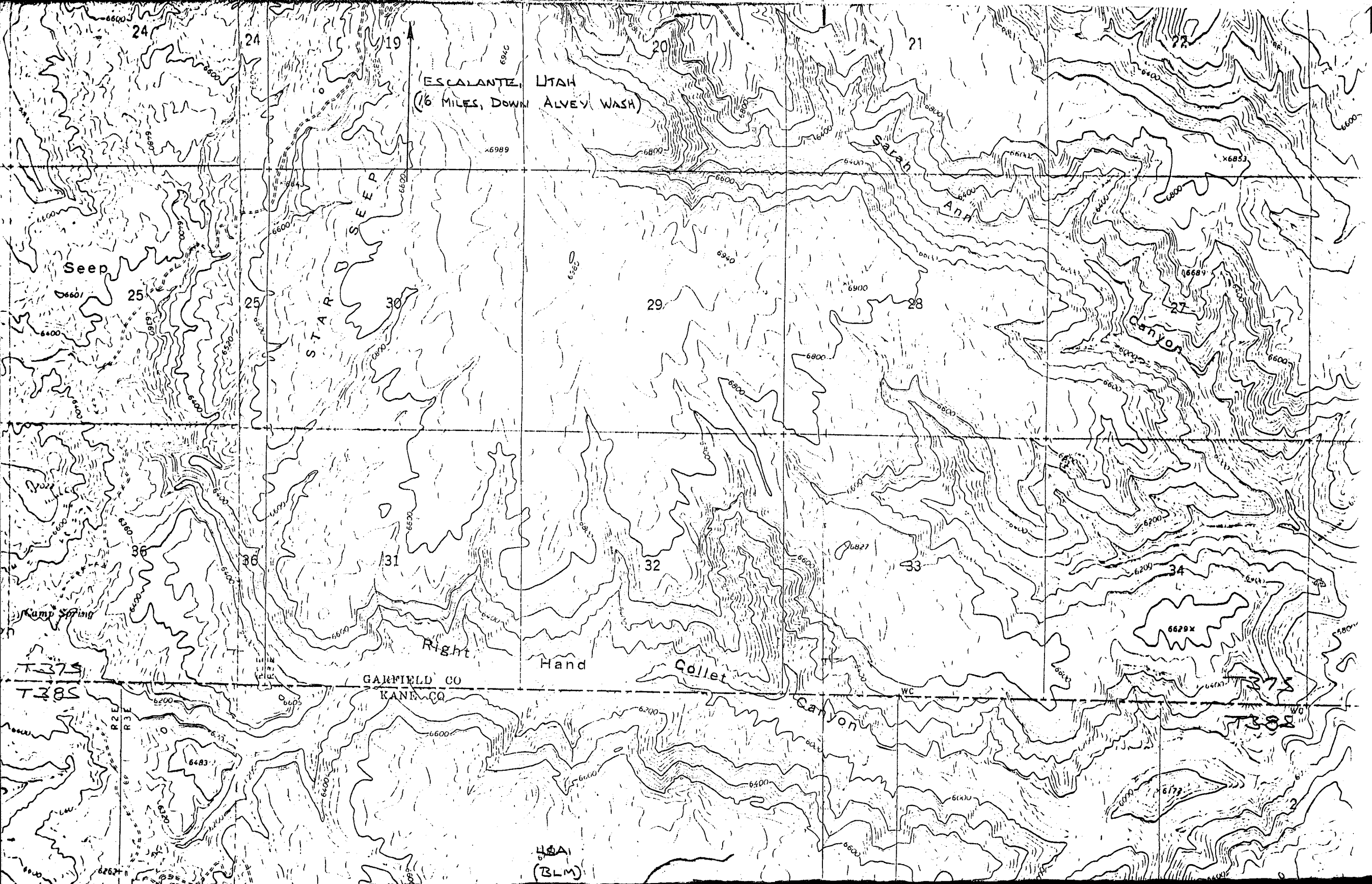
(This requested action ~~does~~ (does not) constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102(2) (c).

Date Inspected 10-4-76

Inspector B. J. [Signature]

[Signature]  
U.S. Geological Survey,  
Conservation Division  
Salt Lake City District  
Salt Lake City, Utah





ESCALANTE, UTAH  
(16 MILES, DOWN ALVEY WASH)

SEEP  
STAR

Seep

Canyon

Right

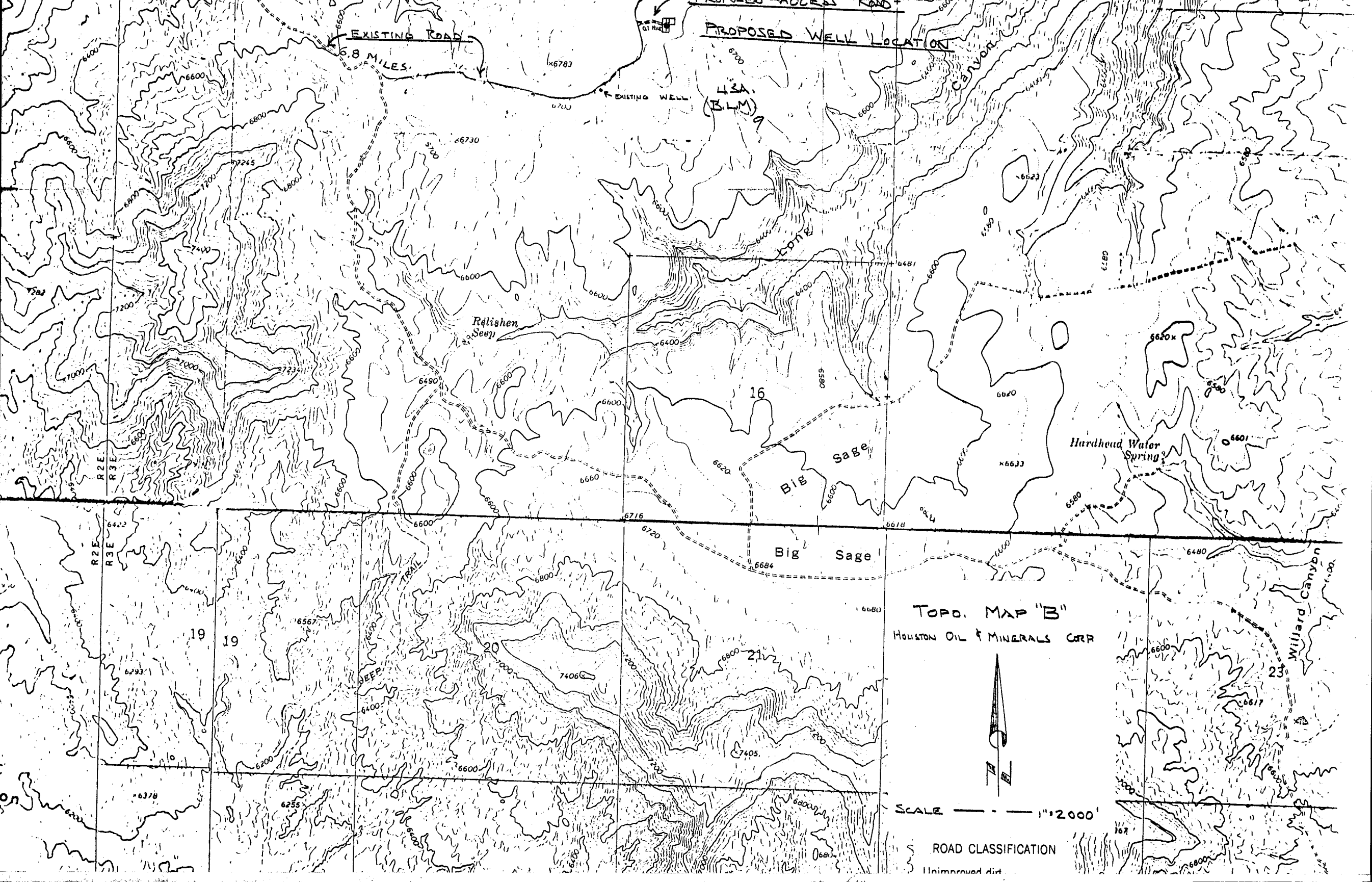
Hand

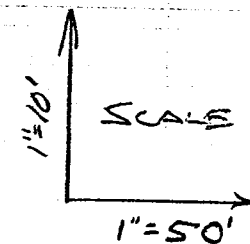
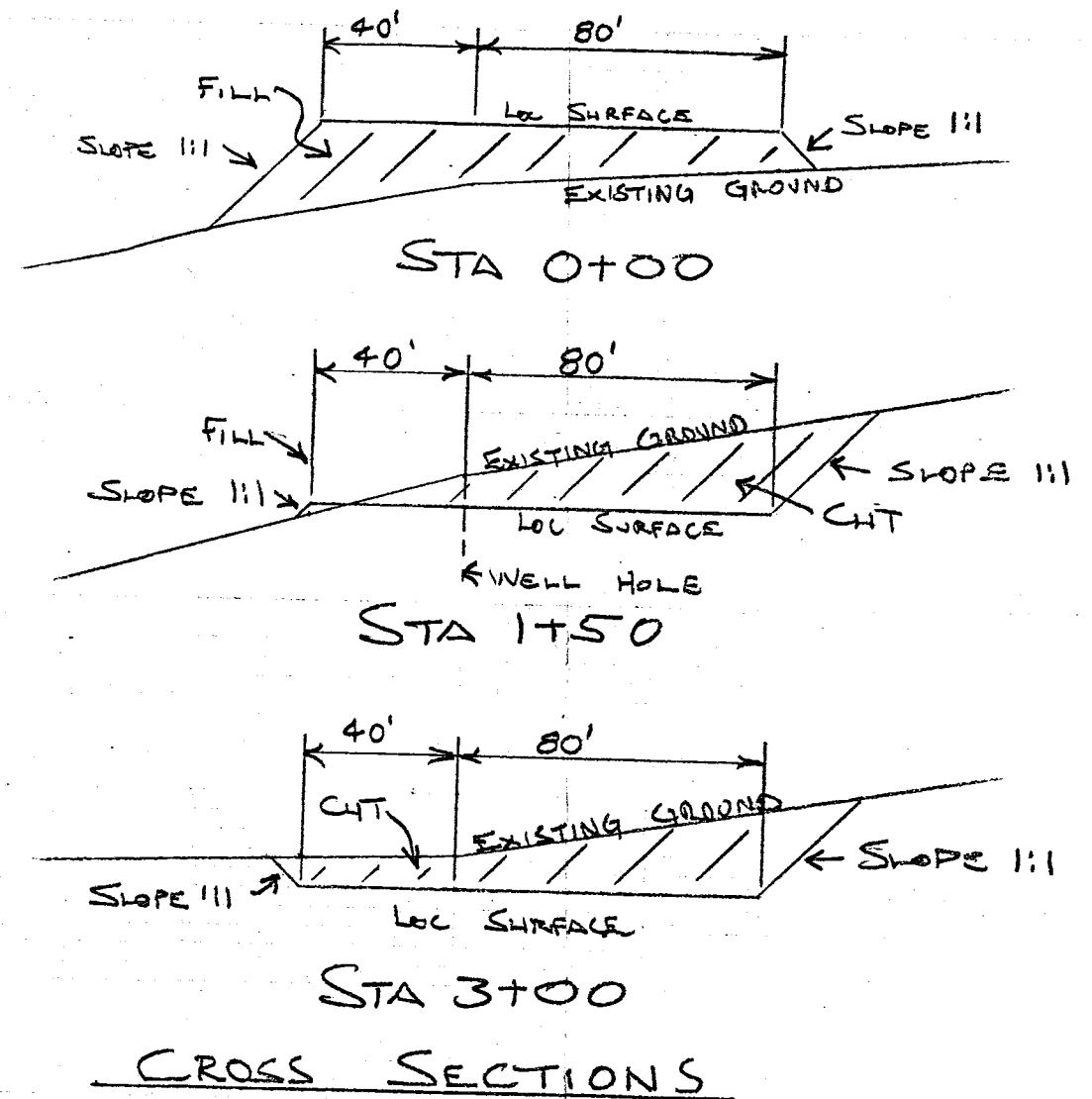
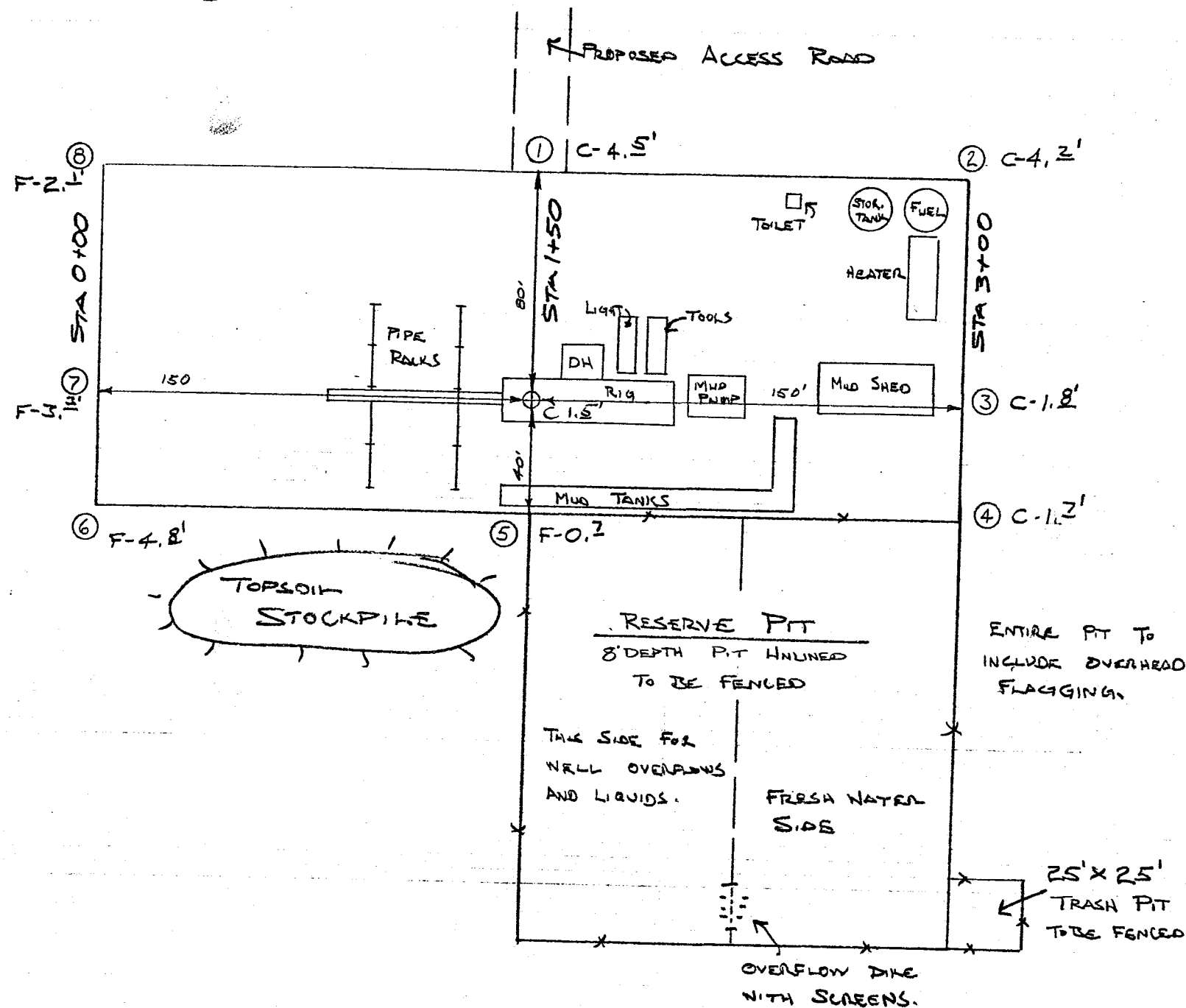
Collet

Canyon

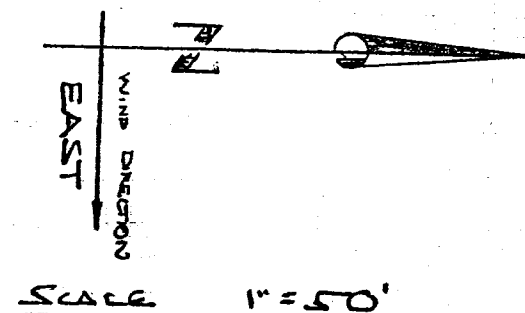
GARFIELD CO  
KANE CO

450A1  
(BLM)



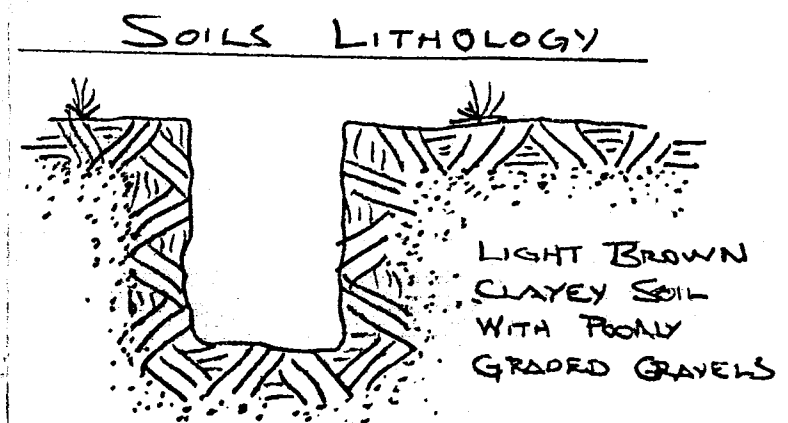


HOUSTON OIL & MINERAL CORP.  
SEC. 9, T38S, R3E, SLB. & M.



APPROX. YARDAGES

CUT 2417	CU. YDS.
FILL 1101	CU. YDS.



To

*Pat Driscoll*

Date

Time

WHILE YOU WERE OUT

Mr.

of

Phone

☐ RETURNED CALL

☐ PLEASE CALL HIM

☐ CALLED TO SEE YOU

☐ PLEASE CALL HER

☐ WANTS TO SEE YOU

☐ WILL CALL AGAIN

Message

*I was in town, talking  
w/ Ed Cuyum @ The USGS and  
Tried to stop in & see you  
while leaving these permits.  
Ill catch you next time.*

Operator

*Ron Scott*

October 28, 1976

Houston Oil and Minerals Corporation  
1700 Broadway  
Suite 504  
Denver, Colorado 80290

Re: Well No. Federal 11-9  
Sec. 9, T. 38 S, R. 3 E,  
Kane County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer  
HOME: 582-7247  
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

The API number assigned to this well is 43-025-30014.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT  
DIRECTOR

cbf/sw





*Confidential*

HOUSTON OIL & MINERALS CORPORATION

P

December 29, 1976

State of Utah  
Division of Oil, Gas, and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Re: Relishen, Federal 11-9  
Sec. 9-T38S-R3E  
Kane County, Utah  
Water Report

Attention: Mr. Cleon B. Feight

Gentlemen:

Enclosed is the original and three copies of Form OGC-8-X as per your instructions on the above mentioned well.

If there is any additional information you request, please do not hesitate to contact this office.

Respectfully yours,

Ronald D. Scott  
District Drilling Engineer

RDS/gs  
Enclosures



CONFIDENTIAL  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE  
(other instructions on reverse side)Form approved  
Budget Bureau No. 42 R1424  
5. LEASE DESIGNATION AND SERIAL NO.

U-18958

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

11-9

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR B.L.K. AND  
SURVEY OR AREA

Sec. 9-T38S-R3E

12. COUNTY OR PARISH

Kane

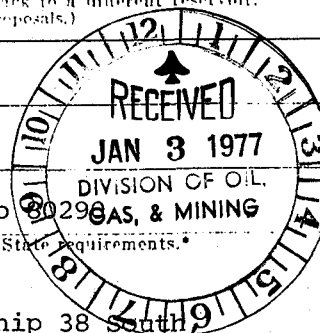
13. STATE

Utah

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT-" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐
2. NAME OF OPERATOR  
Houston Oil & Minerals Corporation
3. ADDRESS OF OPERATOR  
1700 Broadway, Suite 504, Denver, Colorado 80290
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface  
748' FNL and 664' FWL of Section 9, Township 38 South, Range 3 East.
14. PERMIT NO.
15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6727' (GR)



## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Move in workover rig (R&R Well Service; Cortez, Colorado) and clean out casing to PBTD (8350'). Run CBL log and perforate interval 8084'-8138'. Set retrievable packer on end of tubing at 8050' and ballout perforations with 300 gallons treated diesel fuel. Swab and test well in preparation for acid stimulation treatment. Acidize well with 5000-10,000 gallons 15% HCL acid; swab and test well.

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING

DATE: Jan. 3, 1977

BY: P. H. Russell

18. I hereby certify that the foregoing is true and correct

SIGNED

Ronald D. Scott

TITLE District Drilling Engineer DATE December 29, 1976

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

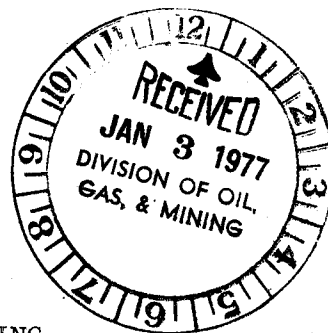
TITLE

DATE

\*See Instructions on Reverse Side

FORM OGC-8-X  
FILE IN QUADRUPLICATE

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116



REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name and Number Relishen, Federal 11-9

Operator Houston Oil & Minerals Corporation

Address 1700 Broadway, Suite 504, Denver, Colorado 80290

Contractor Loffland Brothers Drilling

Address P.O. Box 688, Farmington, New Mexico 87401

Location NW 1/4, NW 1/4, Sec. 9; T. 38 N; R. 3 E; Kane County  
S W

Water Sands:

<u>Depth:</u>		<u>Volume:</u>	<u>Quality:</u>
From-	To-	Flow Rate or Head-	Fresh or salty-

1.	<u>3850'-5200'</u> <u>(Navajo)</u>	<u>Would not flow to surface</u>	<u>Brackish</u>
2.	<u></u>	<u></u>	<u></u>
3.	<u></u>	<u></u>	<u></u>
4.	<u></u>	<u></u>	<u></u>
5.	<u></u>	<u></u>	<u></u>

(continue on reverse side if necessary)

Formation Tops:

- NOTE:
- (a) Upon diminishing supply of forms, please inform this office.
  - (b) Report on this form as provided for in Rule C-20, General Rules And Regulations and Rules of Practice and Procedure.
  - (c) If a water quality analysis has been made of the above reported zone, please forward a copy along with this form.



Confidential

HOUSTON OIL & MINERALS CORPORATION



January 21, 1977

State of Utah  
Division of Oil, Gas, and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Re: Relishen, Federal 11-9  
Sec. 9-T38S-R3E  
Kane County, Utah

Attention: Mr. Pat Driscoll

Gentlemen:

Enclosed are two copies of a sundry notice indicating the intention to "fracture treat" the above mentioned well.

If there is any additional information you request, please do not hesitate to contact this office.

Respectfully yours,

*Ronald D. Scott*

Ronald D. Scott  
District Drilling Engineer

RDS/gs  
Enclosures

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)Form approved.  
Budget Bureau No. 42-R1424.  
5. LEASE DESIGNATION AND SERIAL NO.

U-18958

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

11-9

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR B.L. AND  
SURVEY OR AREA

Sec. 9-T38S-R3E

12. COUNTY OR PARISH

Kane

13. STATE

Utah

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT--" for such proposals.)1. OIL ☒ GAS ☐ OTHER ☐  
WELL WELL

2. NAME OF OPERATOR

Houston Oil &amp; Minerals Corporation

3. ADDRESS OF OPERATOR

1700 Broadway, Suite 504, Denver, Colorado 80290

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface748' FNL and 664' FWL of Section 9, Township 38 South,  
Range 3 East.

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

6727' (GR)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

FULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any  
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones perti-  
nent to this work.)\*Continue testing well with portable pumping unit for 20-30 days  
and evaluate for fracture treatment. Design and fracture treat  
well with 75,000 gallons fluid plus 150,000 lbs. 20/40 sand.APPROVED BY THE DIVISION OF  
OIL, GAS AND MINING

DATE: Jan. 24, 1977

BY: P. H. Russell

18. I hereby certify that the foregoing is true, and correct.

SIGNED

Ronald D. Scott

TITLE District Drilling Engineer DATE January 21, 1977

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)Form approved  
Budget Bureau No. 42-R1424.  
5. LEASE DESIGNATION AND SERIAL NO.

U-18958

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

11-9 (Relishen)

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC. T., R., M., OR BLE. AND  
SURVEY OR AREA

Sec. 9-T38S-R3E

12. COUNTY OR PARISH

Kane

13. STATE

Utah

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐
2. NAME OF OPERATOR  
Houston Oil & Minerals Corporation
3. ADDRESS OF OPERATOR  
1700 Broadway, Suite 504, Denver, Colorado 80290
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface
- 748' FNL and 664' FWL of Section 9-T38S-R3E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

6727' (GR)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Set pump unit and test.(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Rods and pump were run and set at 8117', and a pumping unit installed for long term testing purposes. It was decided not to fracture treat the well; testing continues.

18. I hereby certify that the foregoing is true and correct

SIGNED

Ronald D. ScottTITLE Division Drilling Engineer DATE February 24, 1977

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

U.S. GEOLOGICAL SURVEY, CONSERVATION DIVISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

Well	Location	Lease No.
Houston Oil & Minerals Corp. #11-9	748'FNL, 664'FWL, sec. 9, T. 38 S., R. 3 E., SLM, Kane Co., Utah. Gr. El. 6727'est.	U-18958 <del>U-19237-A</del>
<p>1. Stratigraphy and Potential Well will spud in the Straight Cliffs Sandstone (coal Oil and Gas Horizons. bearing) and it is about 1500' thick. Additional information from Open File Map, Carcass Canyon Quad. by H. D. Zeller, 1967. Following tops reported by Tenneco Oil #1 South Upper Valley, NE<math>\frac{1}{4}</math>NE<math>\frac{1}{4}</math> sec. 16, T. 38 S., R. 2 E. (see page 2).</p> <p>2. Fresh Water Sands. WRD reports: see page 4 attached.</p> <p>3. Other Mineral Bearing Formations. This well to be drilled thru the coal bearing (Coal, Oil Shale, Potash, Etc.) Straight Cliffs Ss. In sec. 11, same township, Consolidation Coal Co. drilled KM-8 Elev. surface 6520'.</p> <p>4. Possible Lost Circulation Zones. Straight Cliffs Ss.</p> <p>5. Other Horizons Which May Need Special Mud, Casing, or Cementing Programs. Unknown.</p> <p>6. Possible Abnormal Pressure Zones and Temperature Gradients. Unknown.</p> <p>7. Competency of Beds at Proposed Casing Setting Points. Probably competent.</p> <p>8. Additional Logs or Samples Needed. Need directional survey to 1000' to show position of hole in case of subsequent coal mining. Need Density, Sonic, and Neutron logs or at least those logs that can be used to recognize coal and make thickness determinations.</p> <p>9. References and Remarks. None.</p>		
Date:	October 14, 1976	Signed: <i>Eileen M. Riva</i>

UTAH STATE O-G-M

Depths of fresh-water zones:

Sun Oil Co., Lyons Federal no. 1, Wildcat

1,280' fnl, 660' fel, sec. 8, T.38 S., R.3 E., SLBM, Kane Co., Utah

Elev. 6,710 ft GR, test to 8,700 ft

Casing proposed to 8,700 ft

" Formation tops, very approx.:

Straight Cliffs Fm	surface
Tropic Sh	1,100 ft
Dakota Ss	1,600
Winsor Fm	1,800
Carmel Fm	2,500
Navajo Ss	3,400
Kayenta Fm	4,800
Wingate Ss	5,000
Chinle Fm	5,400
Shinarump Mem	6,000
Moenkopi Fm	6,200
Kaibab Ls	6,700
Coconino Ss	8,300
Pennsylvanian	8,500

There are no fresh-water wells in the near vicinity of the test. Fresh or useable water may occur in the Straight Cliffs Fm, Dakota Ss, Navajo Ss, and as deep as the Wingate Ss. Deeper formations will contain saline water or brine."

CTS  
10-19-70

*No water encountered in Tennessee - Upper Valley  
Search #1, NENE Sec. 16 T 38 S R 2 E*

1. Potential Oil & Gas Productive Horizons - continued

Tropic Shale	510
Dakota Ss.	190
Winsor Fm.	680
Carmel Fm.	890
Navajo Ss.	1565
Kayenta Siltstone	335
Wingate Ss.	115
Chinle Shale	655
Shinarump Congl.	150
Moenkopi Shale	655
Timpoweap Ls.	55
Kaibab Ls.	310
Toroweap Fm.	340
Coconino Ss.	50
Hermit Shale	220
Drilled into Cedar Mesa Ss. to a total depth of 8900'	

2. Fresh Water Sands - continued

"Formation tops, very approximate:

Straight Cliffs Fm.	surface
Tropic Sh.	1,100 ft
Dakota Ss.	1,600
Winsor Fm.	1,800
Carmel Fm.	2,500
Navajo Ss.	3,400
Kayenta Fm.	4,800
Wingate Ss.	5,000
Chinle Fm.	5,400
Shinarump Mem.	6,000
Moenkopi Fm.	6,200
Kaibab Ls.	6,700
Coconino Ss.	8,300
Pennsylvanian	8,500

There are no fresh-water wells in the near vicinity of the test. Fresh or usable water may occur in the Straight Cliffs Fm, Dakota Ss, Navajo Ss, and as deep as the Wingate Ss. Deeper formations will contain saline water or brine." (WRD information).

No water encountered in Tenneco-Upper Valley South #1, NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 16, T. 38 S., R. 2 E.

3. Other Mineral Bearing Formations - continued from page 1

This hole encountered the following coal beds:

<u>Depth to Top Coal</u>	<u>Bed Thickness</u>
370.05	14.40'
750.25	7.85
780.95	7.10
791.28	15.25

A rough correlation between surface exposure of coal and the Consolidation Coal Co. K-8-A and the Sun-oil and gas test indicates that the uppermost coal might be topped at about 380 feet. Therefore, probably the upper 1000 feet of this hole should be designed to protect fluid encroachment into the coal beds.



*Confidential*

HOUSTON OIL & MINERALS CORPORATION

February 25, 1977

State of Utah  
Division of Oil, Gas & Mining  
1588 West, North Temple  
Salt Lake City, Utah 84116

Re: Relishen, Federal 11-9  
NW NW Sec. 9-T38S-R3E  
Kane County, Utah

Attention: Mr. Pat Driscoll

Gentlemen:

Enclosed are two copies of a sundry notice indicating the subsequent report of shooting or acidizing the above mentioned well.

If there are any additional questions or requirements at this time, please do not hesitate to contact this office.

Respectfully yours,

*Ronald D. Scott*

Ronald D. Scott  
Division Drilling Engineer

RDS/gs  
Enclosures



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE  
(Other instructions on re-  
verse side)Form approved.  
Budget Bureau No. 42-R1424.  
5. LEASE DESIGNATION AND SERIAL NO.

U-18958

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

11-9 (Relishen)

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Sec. 9-T38S-R3E

12. COUNTY OR PARISH

Kane

13. STATE

Utah

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT..." for such proposals.)1. OIL ☐ GAS ☐ OTHER ☒  
WELL WELL

2. NAME OF OPERATOR

Houston Oil &amp; Minerals Corporation

3. ADDRESS OF OPERATOR

1700 Broadway, Suite 504, Denver, Colorado 80290

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

748' FNL and 664' FWL of Section 9-T38S, R3E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

6727' (GR)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any  
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones perti-  
nent to this work.)\*

Moved in R&R Well Service rig and cleaned out casing to PBTD of 8350'. Ran  
CBL log and perforated Cedar Mesa interval from 8084'-8114'. Set retrievable  
packer on end of tubing at 8047' and broke down perforations with 300 barrels  
treated diesel. Swabbed and tested well to tanks for several days, then  
acidized well with 20,000 gallons 15% HCL. Swabbing and testing.

18. I hereby certify that the foregoing is true and correct

SIGNED

Ronald D. Scott

TITLE Division Drilling Engineer

DATE February 24, 1977

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

(See other in-  
structions on  
reverse side)Form approved.  
Budget Bureau No. 42-R355.5.

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL:		OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input type="checkbox"/>	Other _____			
b. TYPE OF COMPLETION:		NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	Other _____	
2. NAME OF OPERATOR Houston Oil & Minerals Corporation						5. LEASE DESIGNATION AND SERIAL NO. U-18958		
3. ADDRESS OF OPERATOR 1700 Broadway, Suite 504, Denver, Colorado 80290						6. IF INDIAN, ALLOTTEE OR TRIBE NAME -		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 748' FNL and 664' FWL of Sec. 9-T38S-R3E At top prod. interval reported below Same At total depth Same						7. UNIT AGREEMENT NAME -		
14. PERMIT NO.						DATE ISSUED 10-15-76	12. COUNTY OR PARISH Kane	13. STATE Utah
15. DATE SPUDDED 11-2-76	16. DATE T.D. REACHED 12-13-76	17. DATE COMPL. (Ready to prod.) 3-2-77	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6727' (GR)		19. ELEV. CASINGHEAD 6730'			
20. TOTAL DEPTH, MD & TVD 10,285'	21. PLUG, BACK T.D., MD & TVD 8400'	22. IF MULTIPLE COMPL., HOW MANY* N/A	23. INTERVALS DRILLED BY →	ROTARY TOOLS yes	CABLE TOOLS			
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 8084'-9590' (Cedar Mesa Formation)						25. WAS DIRECTIONAL SURVEY MADE no		
26. TYPE ELECTRIC AND OTHER LOGS RUN DIL/LL8, FDC/CNL, Dipmeter						27. WAS WELL CORED yes		
28. CASING RECORD (Report all strings set in well)								
CASING SIZE 9-5/8"x14"	WEIGHT, LB./FT. 36.0#x2.2#	DEPTH SET (MD) 2746'-2606'	HOLE SIZE 14-3/4"	CEMENTING RECORD		AMOUNT PULLED		
CEMENT: 1200 sx. Class "G" plus 18% gel, plus 2% CaCl and 200 sx. Class "G" plus 2% CaCl.		Spotted 100 sx. at surface w/1"				none		
7" 23# and 26# 8417'		8-3/4"				none		
CEMENT: 1st stage: 50 sx. Pozmix plus 100 sx. RFC; 2nd stage (stage tool @ 7424'):		50 sx. Pozmix plus 260 sx. RFC.						
29. LINER RECORD				30. TUBING RECORD				
SIZE N/A	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE 2-7/8"	DEPTH SET (MD) 8117'	PACKER SET (MD) N/A	
31. PERFORATION RECORD (Interval, size and number) 8084'-8114' (.41", 60 shots)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.				
				DEPTH INTERVAL (MD) 8084'-8114'	AMOUNT AND KIND OF MATERIAL USED "Balled out" perfs w/300 bbls diesel.			
				8084'-8114'	Acidized w/20,000 gals. 15% HCL.			
33.* PRODUCTION								
DATE FIRST PRODUCTION 1-29-77		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping: 1 1/4" X 28" (plunger type pump)				WELL STATUS (Producing or shut-in) Shut-in		
DATE OF TEST 3-1-77	HOURS TESTED 24	CHOKE SIZE N/A	PROD'N. FOR TEST PERIOD →	OIL—BBL. 1	GAS—MCF. -	WATER—BBL. 44	GAS-OIL RATIO -	
FLOW, TUBING PRESS. 0	CASING PRESSURE 0	CALCULATED 24-HOUR RATE →	OIL—BBL. 1	GAS—MCF. -	WATER—BBL. 44	OIL GRAVITY-API (CORR.) 25.5		
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) none produced						TEST WITNESSED BY Lincoln Lyman		
35. LIST OF ATTACHMENTS Logs								
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records								
SIGNED Ronald D. Scott		TITLE Division Drilling Engineer		DATE March 4, 1977				

\*(See Instructions and Spaces for Additional Data on Reverse Side)



Release Date: 10/2/77



HOUSTON OIL & MINERALS CORPORATION

*Confidential*

March 4, 1977

State of Utah  
Division of Oil, Gas & Mining  
1588 West, North Temple  
Salt Lake City, Utah 84116

Re: Relishen, Federal 11-9  
NW NW Sec. 9-T38S-R3E  
Kane County, Utah

Attention: Mr. Pat Driscoll

Gentlemen:

Enclosed are two copies of the Well Completion report for the above mentioned well.

If you have any questions, or require additional information, please do not hesitate to contact this office.

Respectfully yours,

*Ronald D. Scott*

Ronald D. Scott  
Division Drilling Engineer

RDS/gs  
Enclosures



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R356.5.

LAND OFFICE .....  
LEASE NUMBER U-18958.....  
UNIT .....

## LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Kane Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of March, 1977.

Agent's address 1700 Broadway, Suite 504, Company Houston Oil and Minerals Corporation  
Denver, Colorado 80290

Signed Ronald D. Scott  
Phone (303) 861-7942 Agent's title Division Drilling Engineer

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW/NW	38S	3E	11- 9	21	0	-	0	N/A	none	Well shut in pending drilling and testing of offset well (H.O.M. Federal Skyline A-#1)

NOTE.—There were N/A runs or sales of oil; N/A M cu. ft. of gas sold;

                     runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.



HOUSTON OIL & MINERALS CORPORATION

*Confidential*

April 12, 1977

State of Utah  
Division of Oil, Gas & Mining  
1588 West, North Temple  
Salt Lake City, Utah 84116

Re: Relishen Federal 11-9  
NW NW Sec. 9-T38S-R9E  
Kane County, Utah

Attention: Mr. Pat Driscoll

Gentlemen:

Enclosed are two copies of the Lessee's Monthly Report of Operations for the above mentioned well. Please excuse the delay in submitting this report at the proper time.

If there is any further information you require, please do not hesitate to contact this office.

Respectfully yours,

*Ronald D. Scott*

Ronald D. Scott  
Division Drilling Engineer

RDS/gs  
Enclosures

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City  
LEASE NUMBER U-18958  
UNIT \_\_\_\_\_

**CONFIDENTIAL**

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

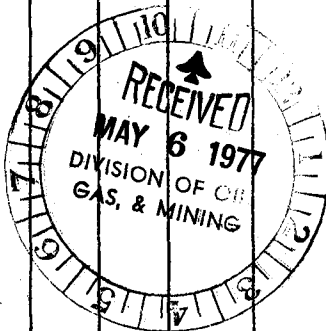
State Utah County Kane Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of April, 1977,

Agent's address 1700 Broadway, Suite 504 Company Houston Oil & Minerals Corporation  
Denver, Colorado 80290 Signed [Signature]

Phone (303) 861-7942 Agent's title Division Drilling Engineer

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCTION	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW/NW	38S	3E	11-9	21	0	-	0	N/A	none	Well shut in pending drilling and testing of offset well (H.O.M. Federal Skyline "A" 1)



**CONFIDENTIAL**

NOTE.—There were N/A runs or sales of oil; N/A M cu. ft. of gas sold;

                     runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.



HOUSTON OIL & MINERALS CORPORATION

**CONFIDENTIAL**

May 20, 1977

Mr. Pat Driscoll  
Division of Oil, Gas & Mining  
State of Utah  
1588 West, North Temple  
Salt Lake City, Utah 84116

Re: Federal 11-9 (Relishen)  
NW NW Sec. 9-T38S-R3E  
Kane County, Utah  
Lease # U-18958

Dear Mr. Driscoll:

Enclosed is the application to plug back (Form 9-331C) and a sundry notice both submitted in duplicate for the above mentioned well.

If you should need any additional information please do not hesitate to contact this office.

Respectfully yours,

Ron Scott  
Division Drilling Engineer

RDS/gs  
Enclosures

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☐DEEPEN ☐PLUG BACK ☒

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Houston Oil &amp; Minerals Corporation

## 3. ADDRESS OF OPERATOR

1700 Broadway, Suite 504, Denver, Colorado 80290

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

748' FNL and 664' FWL of Sec. 9-38S-3E

At proposed prod. zone

same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

24 miles south of Escalante, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

664'

## 16. NO. OF ACRES IN LEASE

160

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

N/A

## 19. PROPOSED DEPTH

7000'

## 20. ROTARY OR CABLE TOOLS

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6727' (Ungraded Ground Elevation)

## 22. APPROX. DATE WORK WILL START\*

ASAP

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
14-3/4"	9-5/8"	36.0	2746	1500 sx.
8-3/4"	7"	23.0 & 26.0	8417	460 sx. (two-stages)

CONFIDENTIAL

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING

Perforated Cedar Mesa formation at 8084'-8114'; broke down  
perfs with 300 gals. diesel and acidized same with 20,000 gals  
15% HCL. Well tested 44 BWPD + 1 BOPD.

DATE: May 24, 1977

BY: P. L. Russell

Set bridge plug at 7000' and dump 10' cement on same. Run tubing and  
packer and set at 6300'. Perforate well in Shinarump formation with 2shots/ft  
at 6349-52'. Test well and treat with 1000 gals. 15% HCL, if necessary to  
open up perforations. Swab test well.

Note: If the Shinarump zone is commercially productive, we will hook up the  
production equipment and produce same; on the other hand, if the zone appears  
non-commercial, the well will be plugged and abandoned with USGS approval.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive  
zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout  
prevention program, if any.

24.

SIGNED

Ronald D. Scott

TITLE

Division Drilling Engineer

DATE

May 20, 1977

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-18958

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Federal

9. WELL NO.

11-9 (Relishen)

10. FIELD AND POOL, OR WILDCAT  
Wildcat11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Sec. 9-38S-3E

12. COUNTY OR PARISH 13. STATE  
Kane Utah

1.

OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR

Houston Oil &amp; Minerals Corporation

3. ADDRESS OF OPERATOR

1700 Broadway, Suite 504, Denver, Colorado 80290

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

748' FNL and 664' FWL of Sec. 9-T38S-R3E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

6727' (GR)

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other) Plug back and recomplete

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other)

(Note: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**CONFIDENTIAL**

Set bridge plug at 7000' and dump 10' cement on same. Run tubing and packer and set at 6300'. Perforate well in Shinarump formation with 2 shots/ft. at 6349'-52'. Test well and treat with 1000 gals. 15% HCL, if necessary to open up perforations. Swab test well.

Note: If the Shinarump zone is commercially productive, we will hook up the production equipment and produce same; on the other hand, if the zone appears non-commercial, the well will be plugged and abandoned with USGS approval.

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING

DATE: May 23, 1977

BY: P. J. Driscoll K/S

(original signed by Mr. Driscoll)

18. I hereby certify that the foregoing is true and correct

SIGNED

Ronald P. Scott

TITLE Division Drilling Engineer

DATE May 20, 1977

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYLAND OFFICE Salt Lake City  
LEASE NUMBER U-18958  
UNIT \_\_\_\_\_

## LESSEE'S MONTHLY REPORT OF OPERATIONS

*Handwritten initials: JH, PC*

State Utah County Kane Field WildcatThe following is a correct report of operations and production (including drilling and producing wells) for the month of May, 19 77,Agent's address 1700 Broadway, Suite 504 Company Houston Oil & Minerals CorporationDenver, Colorado 80290 Signed Ronald D. ScottPhone (303) 861-7942 Agent's title Division Drilling Engineer

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW/NW	38S	3E	11-9	21	0	-	0	N/A	none	Well recompleted in Shinarump zone at 6349-52 and tested fresh water. P&A'd well as per USGS instructions as follows:  Set Baker bridge plug at 7520' and dumped 10' cement on top of same, then perfed and tested zone 6349'-52'. Finished P&A well as follows: #1 6175'-6325' (35 sx.) Cut casing at 3150' and pulled 7" casing. #2 3050'-3150' (45 sx.) #3 2625'-2775' (85 sx.) #4 0'-30' (10 sx.) Erected dry hole marker.

NOTE.—There were N/A runs or sales of oil; N/A M cu. ft. of gas sold;

\_\_\_\_\_ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.



9-381  
(1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-18958

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1.

OIL WELL ☐ GAS WELL ☐ OTHER ☒ Plugged & Abandoned

2. NAME OF OPERATOR

Houston Oil & Minerals Corporation

3. ADDRESS OF OPERATOR

1700 Broadway, Suite 504, United Bank Bldg., Denver, Colo. 80290

4. LOCATION OF WELL (Report location clearly and in accordance with State requirements.\*  
See also space 17 below.)  
At surface

748' FNL and 664' FWL of Sec. 9-T38S-R3E

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

11-9 (Relishen)

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Sec. 9-T38S-R3E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

6727' (GR)

12. COUNTY OR PARISH

Kane

13. STATE

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐  
☐  
☐  
☐  
☐

PULL OR ALTER CASING

☐  
☐  
☐  
☐  
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

SURSEQUENT REPORT OF:

WATER SHUT-OFF

☐  
☐  
☐  
☐

REPAIRING WELL

☐  
☐  
☐  
☒

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Plugged & Abandoned well due to lack of commercial shows as follows:

1. Set bridge plug @ 7520' and dumped 10' cement on same.
2. Plug #1: 6325'-6175' (35 sx.)
3. Cut and laved down 3150' - 7" casing.
4. Plug #2: 3150'-3050' (45 sx.).
5. Plug #3: 2755'-2625' (85 sx.).
6. Plug #4: 0'-30' (10 sx.).
7. Installed dry hole marker.

18. I hereby certify that the foregoing is true and correct

SIGNED

Ronald D. Scott

TITLE Division Drilling Engineer

DATE June 10, 1977

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

\*See Instructions on Reverse Side



HOUSTON OIL & MINERALS CORPORATION

June 13, 1977

Division of Oil, Gas & Mining  
1588 West, North Temple  
Salt Lake City, Utah 84116

Attention: Mr. Pat Driscoll

Re: Enclosed permits for  
Relishen Federal 11-9 and  
Skyline Federal "A"1

Gentlemen:

Enclosed are the following permits:

- for Relishen 11-9; ✓ One Well Completion Report (9-330)
- ✓ two copies of sundry notice notifying intent to abandon (9-331)
- ✓ two copies of sundry notice notifying subsequent report of abandonment (9-331)

If there are any further requirements, please do not hesitate to contact this office.

Respectfully submitted,

Ronald D. Scott  
Division Drilling Engineer

RDS/gs  
Enclosures



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

# CONFIDENTIAL

(See other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R355.5.

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other \_\_\_\_\_

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other \_\_\_\_\_

2. NAME OF OPERATOR  
Houston Oil & Minerals Corporation

3. ADDRESS OF OPERATOR  
1700 Broadway, Suite 504, United Bank Bldg., Denver, Colo. 80290

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface  
748' FNL and 664' FWL of Sec. 9-T38S-R3E  
At top prod. interval reported below  
748' FNL and 664' FWL of Sec. 9-T38S-R3E  
At total depth  
748' FNL and 664' FWL of Sec. 9-T38S-R3E

11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA  
Sec. 9-T38S-R3E

12. COUNTY OR PARISH  
Kane

13. STATE  
Utah

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED  
10-15-76

15. DATE SPUNDED  
11-2-76

16. DATE T.D. REACHED  
12-13-76

17. DATE COMPL. (Ready to prod.)  
N/A

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*  
6727' (GR)

19. ELEV. CASINGHEAD  
N/A

20. TOTAL DEPTH, MD & TVD  
10,285

21. PLUG, BACK T.D., MD & TVD  
Surface

22. IF MULTIPLE COMPL., HOW MANY\*  
N/A

23. INTERVALS DRILLED BY  
ROTARY TOOLS  
Yes

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
N/A

25. WAS DIRECTIONAL SURVEY MADE  
No

26. TYPE ELECTRIC AND OTHER LOGS RUN  
DIL/LL8, FDC/CNL, Dipmeter

27. WAS WELL CORED  
No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8" x					
1 1/4"	36, 2.2	2746'2606'	14 3/4"	1500 sx.	None
7"	23, 26	8417'	8 3/4"	460 sx.	3150'

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
N/A				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
N/A		

31. PERFORATION RECORD (Interval, size and number)

6349'-6352' (.44", 6)  
8084'-8114' (.44", 30)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
8084'-8114'	Balled out w/diesel and acidized w/20,000 gals.
6349'-6352'	No stimulation

33. PRODUCTION

DATE FIRST PRODUCTION  
N/A

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)  
N/A

WELL STATUS (Producing or shut-in)  
N/A

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
N/A							

FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
N/A

TEST WITNESSED BY

35. LIST OF ATTACHMENTS  
Logs sent previously

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED Ronald D. Scott TITLE Division Drilling Engineer DATE June 10, 1977

\*(See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22 and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

## 37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	38. GEOLOGIC MARKERS	
				NAME	TOP MEAS. DEPTH TRUE VERT. DEPTH
Timpoweap	7150'	7214'	Cored 7153'-7213' analyzed water with some intervals having minor oil saturations.	Entrada	3271'
Kaibab	7214'	7384'	Cored 7283-7343 analyzed water with minor oil shows.	Navajo	3717'
Cedar Mesa	8084'	9352'	Tested 8094'-8148 Recovery 524' mud; Open 10 min. SI 60 min; Open 120 min. SI 120 min.  Initial Hydrostatic 2910 psig Initial flow 64-64 psig Initial shut in - 2335 psig Final Flow - 77-218 psig Final Shut in - 1953 psig Final Hydrostatic 2910 psig	Kayenta	5250'
				Wingate	5506'
				Chinle	5184'
				Shinarump	6347'
				Moenkopi	6474'
				Timpoweap	7150'
				Kaibab	7214'
				White Rim	7384'
				Toroweap	7491'
				Cedar Mesa	8084'
				Hermosa	9590'
				Molas	9809'
				Redwall	9888'

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPlicate  
(Other instructions on re-  
verse side)Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-18958

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Plugged & Abandoned		7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR Houston Oil & Minerals Corporation		8. FARM OR LEASE NAME Federal	
3. ADDRESS OF OPERATOR 1700 Broadway, Suite 504, United Bank Bldg., Denver, Colo. 80290		9. WELL NO. 11-9 (Relishen)	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 748' FNL and 664' FWL of Sec. 9-T38S-R3E		10. FIELD AND POOL, OR WILDCAT Wildcat	
14. PERMIT NO.		15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6727' (GR)	
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		17. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 9-T38S-R3E	
18. COUNTY OR PARISH Kane		19. STATE Utah	

NOTICE OF INTENTION TO:		SURSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Drilled and completed subject well to TD of 10,285', encountering minor oil shows in Shinarump, Kaibab, and Cedar Mesa formations. Set 7" casing @ 8417' and completed well in Cedar Mesa @ 8084'-8114' and tested water. Recompleted well in Shinarump @ 6349'-6352' and tested water. Plugged as follows:

1. Set Bridge plug @ 7520' and dumped 10' cement.
2. Perforated and tested Shinarump @ 6349'-6352'.
3. Set plug #1: 6325'-6175' (35 sx.)
4. Cut and layed down 3150' - 7" casing
5. Set plug #2: 3150'-3050' (45 sx.)
6. Set plug #3: 2755'-2625' (85 sx.)
7. Set plug #4: 0'-30' (10 sx.)
8. Installed dry hole marker.

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING

DATE: June 14, 1977

BY: P. H. Duncall

NOTE: All plugs displaced with drilling mud.

18. I hereby certify that the foregoing is true and correct

SIGNED

Ronald D. Scott

TITLE Division Drilling Engineer DATE June 10, 1977

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE



SCOTT M. MATHESON  
Governor

GORDON E. HARMSTON  
Executive Director,  
NATURAL RESOURCES

CLEON B. FEIGHT  
Director

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771  
January 31, 1978

OIL, GAS, AND MINING BOARD

I. DANIEL STEWART  
Chairman

CHARLES R. HENDERSON  
JOHN L. BELL  
THADIS W. BOX  
C. RAY JUVELIN

Houston Oil & Minerals Corporation  
1700 Broadway, Suite 504  
United Bank Bldg.,  
Denver, Colorado 80290

Re: Federal 11-9  
Sec. 9, T. 38S, R. 3E  
Kane County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office June 10, 1977 from above referred to well(s) indicates the following electric logs were run:

**DIL/LLS, FDC/CNL, Dipmeter**

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS & MINING

*Kathy Ostler*  
KATHY OSTLER  
RECORDS CLERK